

LIFEVIEW Mobile

Analyser

An online portable instrument designed to improve the reliability and give a detailed condition summary of your electrical rotating machines.

The LIFEVIEW® Mobile is a lightweight portable electrical test instrument which can be used to monitor online Partial Discharge (PD), two pole generator rotor air gap flux and / or shaft voltage provided the relevant sensing equipment has been installed. The LIFEVIEW Mobile connects to pre-installed sensors and the provided laptop captures the rotating machine insulation condition data from the analyser. One of the key benefits of the equipment is that it can be used with the electrical machine online, enabling the crucial saving of outage downtime.

Key Features

- 3 channel PD monitoring
- Advanced interference filtering capabilities
- Gain configuration options to allow for connecting to most PD sensors
- Shaft voltage monitoring (requires optional accessory Shaft Voltage conditioner kit)
- Rotor leakage flux monitoring for two pole generator rotor
- Auto report function
- PD Calibrator (QCAL) included
- Provides snapshot indication of rotating machine condition



The LIFEVIEW Mobile Monitors:

- Partial Discharge
- Shaft Voltage
- Air Gap Flux

Compatible for use on:

- HV Generators
- HV Motors

#LIFEVIEWConditionMonitoring

Technical Specification

Data Acquisition

- Partial Discharge: 3 channel, measurements in accordance with IEC 60270 & IEC 60034-27-2
- Shaft Voltage: 2 channels
- Air Gap Flux: 1 channel
- Synchronisation Sources: Internal, External, Phase 1, Phase 2, Phase 3
- Partial Discharge low cut off frequencies: 100kHz, 500kHz, 1MHz, 2MHz
- Partial Discharge high cut off frequencies: 1MHz, 10MHz

Interfaces

- Power Supply: 100-240Vac
- Frequency: 50/60Hz
- Maximum power: 15W
- Maximum current: 150mA
- USB: 2.0

Environment

- Operating Temperature: 0-45°C
- Relative Humidity: 10-90%
- ATEX/IECEX Rating: Safe area only

Mechanical Dimensions

- Carry Case Dimensions: 670mm (W) x 270mm (H) x 510mm (D)
- Weight: 20kg

Software

Q4100 Software package including:

- Partial Discharge: Phase resolved PD patterns displayed in a phase or time reference mode
- Partial Discharge Values: Apparent charge (Q_m, Q_{app})
- Shaft Voltage waveform display including harmonic orders
- Shaft Voltage and current measurement displaying maximum and RMS values
- Air gap flux leakage flux display with integrated total flux and normalised difference between rotor coils
- Auto-Report PD phase resolved patterns PD phase resolved patterns

Quartztec GmbH reserves the right, without further notice, to change the product specifications and/or the information contained in this document for improvements of the product

Key Contact Information

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Contact Your Local Authorised Distributor

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Why LIFEVIEW Mobile?

- Compatible with almost any sensor
- Measure PD, Shaft Voltage and Air Gap Flux
- Portable instrument
- Specifically engineered for online rotating machine partial discharge analysis
- Auto-Report PD phase resolved patterns

Order Code

Q4100: LIFEVIEW Mobile kit includes:

- Laptop, analyser, QCAL, cables, accessories and transport case

Optional Module:

QSV Module Mobile - Shaft Voltage monitoring module for LIFEVIEW online monitoring system. Kit includes Signal Conditioner (for up to two sensors) & Cables



Shaft Voltage Signal Conditioner



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